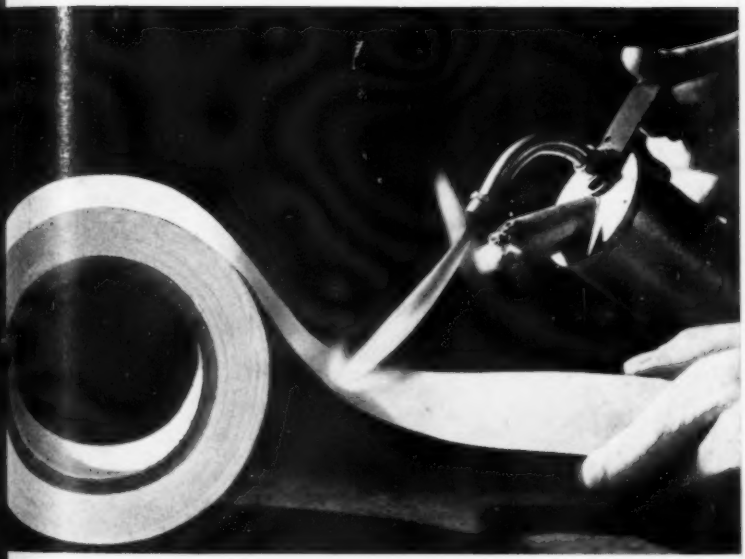
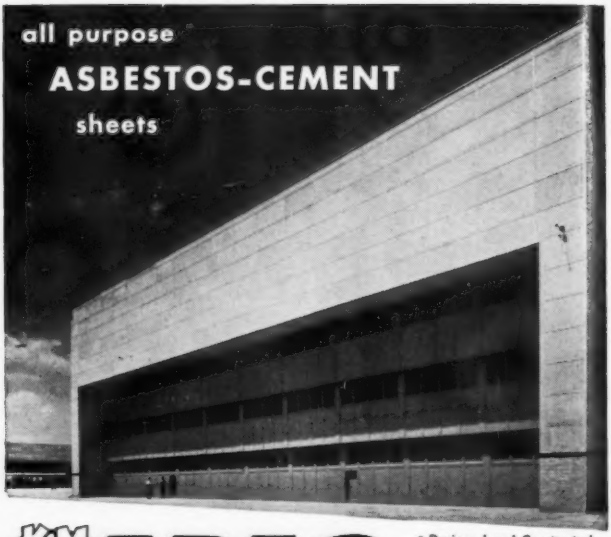
ASBESTOS



Quinterra Paper — the latest Asbestos Product

JANUARY - 1949



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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE
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A. S. ROSSITER, *Editor*
E. E. COX, *Circulation Manager*

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1949 -- FOR GOOD OR ILL

Since the beginning of time we suppose, man has tried to foresee or forecast future happenings. Various methods have been tried, with varying success. Personally we have no faith in any of them—that prognostications are sometimes borne out by the actual happenings we believe is due to coincidence rather than prescience. But stars are highly vaunted by some people as indicators of future events; palm reading, the Ouija Board, spiritualism, crystal balls, and so on. No one has ever found a really infallible method —even polls fail at times!

When we stop to consider, it does seem peculiar, and unfair, to put man into the world and make him take the joys, the sorrows, upsets, calamities, as they come, with, in most cases, absolutely nothing to forewarn him. Sometimes we are warned but pay no attention to the warning, or do not recognize it as such.

Our most serious disasters, as a world, or as a nation, strike out of a clear sky, or appear to do so.

The year 1949 is before us—what can we do to prepare ourselves for what *may* happen? In our personal life and in business as well? In our friendships; our financial affairs, our personal and business contacts?

Often happenings are regarded as "fate" or "destiny" when older heads than ours, from experience, could have told us (if we would have listened) what the result of our actions would be. The old adage "experience is the best teacher" applies to day as well as it did a hundred years ago. But youth goes blithely under the impression that "it couldn't happen to me". And we must confess that quite often youth appears not to be called on to pay the piper for indiscretions, or downright defiance, of nature's laws.

What is our conclusion for the coming year? Just this: we must live each day as best we can—taking our joys and sorrows as they come; coping with the problems as best we can; keeping our *faith* and our *integrity* at high levels. We may not win out but we can honestly say we have tried.

No matter what 1949 brings—of good or ill—we must go forward bravely with the will to conquer.

DE ENDENCE

n the Empic News Page, published every month or so by e Electric Manufacturers Public Information Center[1] we ad:

ne electrical manufacturing company reports it is dependent r supplies on 20,000 companies in 2300 cities in 48 states.

No doubt a little further research would show that oth countries would enter into it, at least as raw materi s which made up many of the supplies mentioned.

The United States before World War II did not bother very much as to whether it was self sustaining, being perfect content to carry on, in a neighborly manner, business all over the world—buying from other countries as well s selling to other countries. An interchange of goods whi was profitable to all and brought to the U. S. A., man luxuries, many beautiful and lovely things.

After the war began it was hard for people to believe that certain small items (pepper is a good example) was simply not to be had anywhere in the U. S. A. Any country crossroads store had always sold it; if you wanted pepper you just went to a grocery store—any grocery store—and asked for it, paying a few cents a pound.

How much better and happier the world could be if there were free interchange of goods without bickering, without fighting, without war! And why can't there be?

No person, no state, no country or nation can live unto itself, with total disregard of other peoples, other nations. That has been proven time and time again but there are those who simply cannot be convinced of it. Some one is always selfish, always greedy, with no thought of others!

[1]At 155 E. 44th St., New York 17, N. Y.

• • • —

The Fifth Annual Convention and Exposition of the National Association of Home Builders will be held in Chicago, February 20 to 24. A total of 139 leading national firms serving the home building industry will exhibit their newest products to the builders. In the list of exhibitors we find the names of The Ruberoid Co., U. S. Gypsum Co., Johns-Manville Corp., and Philip Carey Mfg. Company.

GREETINGS TO THE ASBESTOS INDUSTRY

By Executives in the Industry

Editor's Note: Views expressed in these Greetings may or may not coincide with our own. "ASBESTOS" assumes no responsibility—we simply quote the Greetings as received.

R. W. Lea, President,
Johns-Manville Corporation:

The Asbestos Industry can take satisfaction, I believe, in the important job done during 1948 in response to the tremendous demands made upon us.

We in Johns-Manville are proud of the progress we have made as a member of the industry in increasing our production of asbestos fibre. In 1948 our production of fibre has been more than ten per cent ahead of 1947 which had been our record year. With a continuation of the present need we plan to work at full capacity through 1949.

Our entire industry can take pride in the volume of asbestos products being supplied for construction and industrial uses. As we look forward to the coming year, I believe we have justification for hope that it will be another one of big accomplishment.

It is a pleasure to have this means of greeting all members of the Asbestos Industry and extending best wishes for the year ahead.

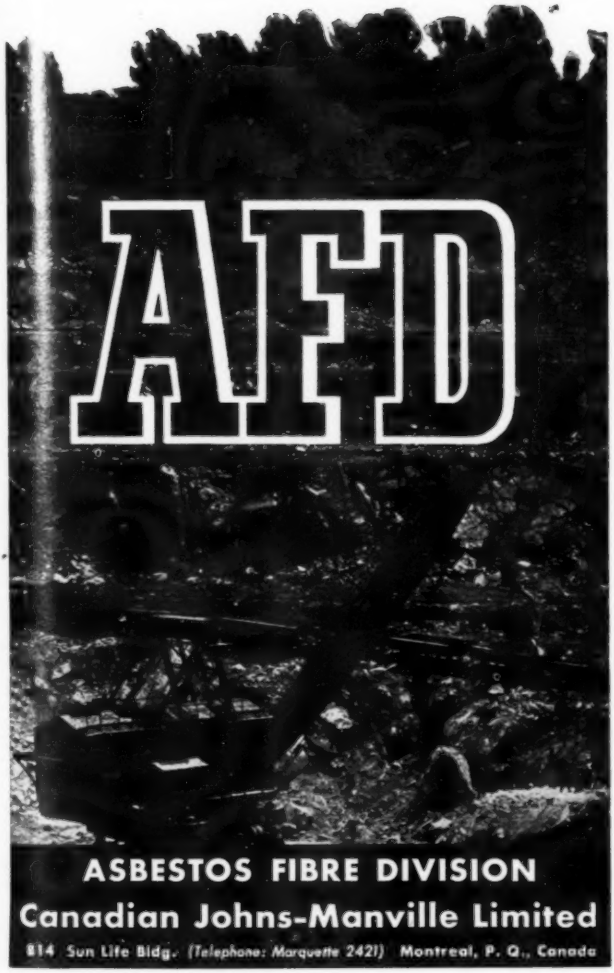
* * * —

Giles F. Newton, Managing Director
The Cape Asbestos Co., Ltd.:

Through the medium of "ASBESTOS" I would like to send The Cape Asbestos Company's sincere good wishes for Christmas and the New Year to all our many friends in the Asbestos Industry in the United States of America, and throughout the World.

I am confident that an atmosphere of complete frankness and understanding of the other fellow's difficulties is absolutely essential to the continued success of our Industry. A similar co-operation between Management and Labour is an objective of parallel importance.

These are the New Year resolutions that commend themselves to my Company.


AFD
ASBESTOS FIBRE DIVISION
Canadian Johns-Manville Limited
814 Sun Life Bldg. (Telephone: Marquette 2421) Montreal, P. Q., Canada

J. H. Watters, President,
Union Asbestos & Rubber Co.

I appreciate the opportunity which is extended to me each year at this time to send Holiday Greetings to the members of the Asbestos Industry, through "ASBESTOS".

I extend cordial greetings to the Industry and trust that the year 1949 will hold in store for all of us a full measure of prosperity.

. . . —

Herbert Abraham, President,
The Ruberoid Co.:

Although modern research is constantly disclosing important new uses for asbestos, the probabilities are that, with the growing public knowledge of the many advantages of asbestos building products, one of our Industry's major markets will always be in the construction field. In view of this, any effort to evaluate the prospects of the Asbestos Industry as we enter 1949 must take into account the existing situation in the building industry.

Business in the building materials industry was good in 1948. It is still good, and the immediate outlook is encouraging. During 1949, for example, new construction is expected to reach a value of $18.75 billion, setting a new dollar-volume record for building activity, according to a recent announcement by the U. S. Department of Commerce.

What the long-term future may hold in store, of course, cannot be foreseen. A perceptible slackening of demand has already been noted in certain lines. There exist, however, in the general construction field certain potentialities which, in the absence of any unpredictable abnormal occurrences, can act as stabilizing factors.

One of these factors is the continuing need for additional housing. Another is the huge backlog of repairs and modernization work accumulated before, during and since the war.

A third factor with favorable possibilities for the future is seen in the extensive plant expansion and improvement programs which are being carried on by

numerous companies. Through activities such as these the members of our industry are, I am sure, bending every effort toward greater efficiency resulting in more economical production, and thus toward holding prices at reasonable levels.

Whatever the outcome of the general confusion with which the world is afflicted today, I am confident that our Industry will do its full share toward maintaining our national economy on a stable basis. In that spirit, and with sincere appreciation of the pleasant relations which have existed among the members of our Industry, I extend to all my heartiest wishes for a happy and successful New Year.

• • • —

Fred Schluter, President,
Thermoid Company:

Because both candidates gave evidence of being "big government" proponents, the results of the national election, in my opinion, will not materially affect the immediate business outlook of our Industry. Government and its political management has an important influence on business. The managers of business, therefore, will have to continue to steer with an eye on Washington maneuvers—as well as on the natural level of supply and demand.

The outlook for the automotive replacement market is still good. Over 50% of the 34 million cars and trucks on the road today need brake relining jobs. The "wear and tear" parts outlook is also particularly hopeful. With our two manufacturing locations (we have completed our large new plant in Utah), Thermoid should get an increased share of this business.

To maintain his position, the large wholesaler will have to get back to hard competitive selling. The sincere supporters of the free enterprise formula will welcome that rugged period. The incompetent will dislike it—and face elimination.

Our 1949 program includes much help to our outlets in this period ahead.

Ernest Muehleck, President,
Keasbey & Mattison Company:

On behalf of all of us in the Keasbey & Mattison Company, and through the courtesy of "Asbestos" I send greetings and best wishes to each and every one associated with our industry.

May the coming year bring happiness and "Peace on Earth, Good Will towards Men".

. . . —

J. F. D. Rohrbach, President,
Raybestos-Manhattan, Inc.

Raybestos-Manhattan, Inc. sends Season's Greetings and best wishes to all our friends.

We realize that the year 1949 will provide us with opportunities to do an improved job for our customers, employees, stockholders and suppliers.

Raw materials, being in short supply, may be allocated in some instances. Manpower in certain localities may be scarce and the inflationary curve of prices will still be a problem which must be solved.

One way we can contribute to meeting these challenges which face us for 1949 is to take stock of ourselves, get our thinking straight and face the facts. We can eliminate waste in all departments of our business, increase our efficiency and productivity in all our endeavors and continue to strive to produce quality products at the lowest possible prices.

In that way we can do our share to preserve the American way of life in which we all have faith.

. . . —

Clifford F. Favrot, President
Asbestone Corporation

ASBESTONE Corporation extends the Season's Greetings to all readers of "ASBESTOS".

We hope that during the coming year everyone will enjoy health and happiness and that business will be as prosperous as it was during 1948.

RESEARCH

Atom bombs . . . radar messages to the moon . . . magnetized ink . . . "flocked" rugs . . . pants that never wrinkle or shine . . . these are just a few of the new products of American research.

Research is now the country's fifth biggest industry, costing more than a billion dollars a year and producing more revolutions per minute than you'd think possible.

At the Raybestos-Manhattan plants research has been a major project for more than 50 years. Today, R/M research is expanding the uses of asbestos and asbestos textiles more rapidly than ever before.

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Asbestos Textile Division · Manheim, Pa.

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I. J. Harvey, Jr., President,
The Flintkote Company

It is a pleasure to extend once again Holiday Greetings and best wishes for 1949 to the readers of "ASBESTOS".

The increasingly widespread use of asbestos-cement products and their acceptable proven performance in use on thousands of structures, augers well for the future of the Industry.

. . . —

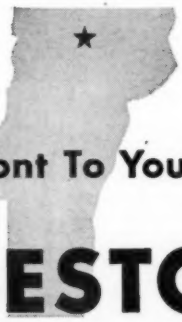
Herbert E. Smith, Chairman
United States Rubber Company:

We enter the New Year wtih confidence that it will be a good year for American business.

In a free economy there are always a few fluctuations, and there may be certain adjustments during 1949. A serious recession, however, is not likely, according to present indications. Among the influences at work to keep business at a high level are large expenditures by industry to expand and modernize buildings and equipment, heavy expenditures by the government for defense and European recovery, shortages in some durable lines accentuated by government purchases and, most important of all, full employment at high wages, giving the American people great purchasing power.

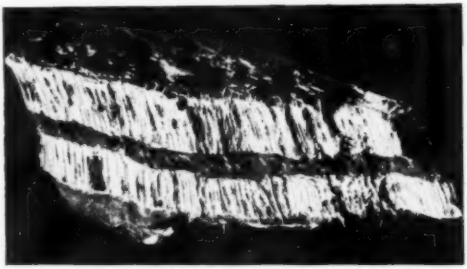
The Asbestos Textile Industry, in particular, should look forward to a promising future. The unique material, asbestos, has already proved to be the best safeguard against fire and has saved countless human lives. New plants have been built throughout our country as new asbestos products have been developed, giving jobs to hundreds of men and women. With American scientists pioneering to find even greater applications for this miracle mineral, the future of asbestos and the Asbestos Industry is assured.

I am happy to be associated with the Asbestos Industry and to wish all of you a happy and prosperous New Year.



Vermont To You!

ASBESTOS



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R. W. Steele, Chairman of the Board
Asbestos Corporation Limited

It is indeed both a pleasure and a privilege to extend the greetings and best wishes of the Asbestos Corporation Limited to the readers of your magazine.

In many respects, 1948 has been a good year for our industry. Faced with the sustained and, in many cases increased demand for all grades of asbestos fibre throughout the year, the asbestos producers have spared neither time nor money in their efforts to increase the supply of fibre. Despite the measures taken to augment the available amount of fibre, it would appear, however, that there still remains a marked shortage of all grades of asbestos.

The outlook for 1949 is difficult to assess; and though continuously rising costs pose a pressing problem for the coming year, I feel confident that the asbestos producers will be able to maintain their record for service to industry and consumer alike.

. . . —

Harry A. Dutton, (Veteran in the Insulation Industry)
Dutton Asbestos & Supply Co., San Francisco.

I little thought that when I was helping my father mine some asbestos fibre near Perris, California in 1884, that "ASBESTOS"[1] would request me to send a "greeting" to its readers sixty-five years later!

My only observation is one of optimism. During these sixty-five years the demands and uses for asbestos have magically increased and I foresee not the least diminution in demand nor in uses.

From this little mountain side town of Taxco in Mexico, where the Editor's letter found me, may I extend to all of the readers of our magazine, an optimism for the future based upon the solid foundation which "the Trade" has so firmly established in the past.

[1]Not in existence until 1919.

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R. H. Chase, Manager Insulation Division
The Paraffine Companies, Inc.

To My Friends in the Asbestos Industry:

This opportunity to greet so wide a group of my friends within the Industry during the holiday season is a recurring courtesy for which I sincerely thank "ASBESTOS".

In my opinion, business reduced solely to a matter of dollars and cents would be a very dull and uninspiring factor in life. Business predicated on the basis of service to nation, human welfare, sound accomplishments and friendly associations with co-workers from all elements of the Industry becomes a most satisfying inspiration.

During these busy and complex times, we infrequently have time or the opportunity to express such thoughts, although we daily live with and are inspired by them.

I, personally, feel it to be a great honor to be a member of our Industry and thus associated directly and indirectly with its wide-spread and capable personnel. Your Industry and mine achieved the near miraculous during the last war, and has amply demonstrated its versatility by continuing to serve and meet the problems of the post-war period.

May I here express my best seasonal wishes to you all and wish for you in the coming year the high measure of prosperity which you so justly deserve.

* * * —

A. A. Lofquist, President
Norristown Magnesia & Asbestos Co.

In attempting to predict developments in the Asbestos Industry in 1949 most of us, I believe, feel just as uncertain as we did at the beginning of the good year now ended. The tyranny and intolerance found throughout the world perpetuating the turmoil that exists in so many places do not make our tasks easier. Intelligence applied by our Government to that problem, together with the intelligence we apply to our own businesses, will strongly affect our happiness and prosperity this coming year.

I thank you in behalf of the Norristown organization for the opportunity to extend New Year's greetings to the Asbestos Industry and wishes for a successful year.

ASBESTOS

ASBESTOS CORPORATION LIMITED

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R. S. King, President
The Philip Carey Mfg. Co.

It is a privilege to extend on behalf of the Carey organization, season's greetings to all our good friends in the asbestos industry and to the editor and the staff of "ASBESTOS".

Despite continued international uncertainties, domestic problems and the critical shortage of asbestos fibre, Carey anticipates another successful year in 1949 and hopes that the same will be true throughout the entire Asbestos Industry.

. . . —

Regardless of circumstances each man lives in a world of his own making.

ASBESTOS IN NORTHERN TRANSVAAL

In the October 23rd issue of the South African Mining & Engineering Journal is a review by C. G. Fourie on "N. Transvaal Mineral Production" which includes a paragraph on Asbestos. We quote it for what it is worth:

"Since my last report great advances have been made in the production of this mineral (asbestos). In addition to the Egnep Company, which has been operating on the asbestos fields for many years, other concerns have commenced mining operations and erected their own fiberizing plants. At present some five new mills are operating on the fields and more are being constructed. The Transvaal Asbestos Co. and Union Minerals have also restarted, and production on a fairly large scale should be in full swing in the near future. The Associated Asbestos (Pty) has become very active and operates three mills on the fields. In addition, it has a central mill in Pietersburg, where the fiberized asbestos from the fields are further treated. The company exports a large tonnage of both amosite and blue asbestos. About 30 tributors and diggers are working on the asbestos fields. Most of them conduct mining only and supply the various mills with cobbed asbestos, for which payment is made on the fiberized asbestos recovered."

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Mines and Mills in Gila Co., Arizona

MINING AND MILLING METHODS IN JAPAN

Taken from the report "Asbestos Resources of Japan" issued by the National Resources Section, General Headquarters, Supreme Commander of the Allied Powers, Report No. 115.

1. Mining Methods

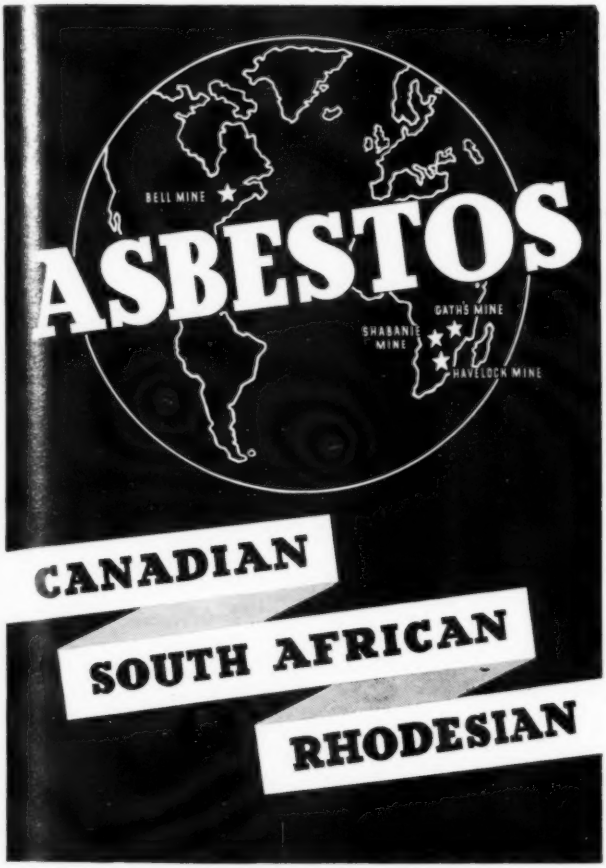
All asbestos deposits in Japan are worked as open pits, as the soil coverings are shallow enough to make stripping by hand methods or power shovel feasible. The deposit and overburden are opened from the top down in a series of benches ranging from 10 to 20 meters in height. Usually the rugged typography permits one side of the pit to remain open for transportation on the level, in order to eliminate hoisting problems. Where unusually low-grade ore is encountered, selective mining within the pit is practiced. The leaner portions are then by-passed or carried directly to the dump.

Most of the ore is soft enough to be broken by hand methods, altho jack-hammer drilling and blasting are sometimes employed. However, during the winter, particularly in Hokkaido, frozen ground makes mining operations impossible without the aid of blasting.

The broken ore is hand-shoveled into ore cars for transportation to the mill. In some mines the ore cars are pushed by hand or drawn by horse directly to the mill. In some Hokkaido mines the ore cars are pushed to a hopper or ore bin and transported from there to the mills by aerial tram cars. The tram lines from the Nozawa and Asahi mines are more than two kilometers (1-¼ miles) long and constitute an engineering problem, especially when repairs are needed. Aerial trams are most practical in Hokkaido because of the deep winter snows which normally would obstruct transportation from mine to mill.

Some of the mines, especially during wet weather, dry the ore before transporting it to the mill.

Electric power is available to all but the smallest workings. These depend entirely upon manpower.



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2. Milling Methods.

a. *Dry Process*

Most asbestos fibres in Japan are separated by the dry process. All the large chrysotile producers of Hokkaido employ a dry milling process patterned after that of the important Canadian mills, in which the fibres are separated from the waste by air suction after graded crushing of the ore.

The processes at the various mills differ in details, but that of the Nozawa mill is typical. The ore is broken at the mine by a cone crusher with a capacity of 60 tons per hour and then dried to a moisture content of about seven percent in a rotary kiln dryer which has a capacity of about 10 tons per hour. Transfer to the mill is made by an aerial tramway 2,200 meters (approximately 1.4 miles) long.

At the mill large pieces of waste are hand-culled by the women pickers who work along the conveyor belt running from the bunker to a trommel screen and a cone crusher of 50 tons per hour capacity. Fines from the trommel screen and from the cone crusher pass onto conveyor belts to the drier. The main drying operation is done in a rotary drier 12 meters long and 1.8 meters in diameter, with a capacity of about 10 tons per hour. Dust is drawn off during the drying operation by a fan with a displacement of 350 cubic meters per minute. A bucket elevator feeds the dried ore into a storage room of 6,000 tons capacity.

Graded crushing of the ore from the storage room is effected by one roll crusher with a capacity of 30 tons per hour and five jumbo crushers each with a capacity of 25 tons per hour. After each crushing, fibres are drawn off by suction thru fish-tail pipes which are suspended over the lower edges of inclined shaking screens. The cross-sectional area of the air stream is increased in collector tanks, and the fibres settle out. The dust is carried thru the fan to dust collecting tanks. The fibres are further cleaned

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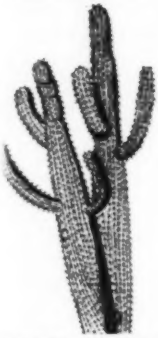
by grading and shaking screens before they are collected for packing.

At almost all of the large Hokkaido mines, the bottleneck in the milling process is the drier capacity. Production could be increased 100 percent or more by additional drying facilities.

The Sakaegamikomei and Kondo mills in Kyushu use a crude dry milling process. After the ore is crushed and dried, the fibres are drawn off by air suction. Most of the smaller pits scattered thruout the producing areas employ a simple dry milling process, or mill their ore with the production of large adjacent mines. Some of the Sakaegamikomei and Kondo fibre is separated by a wet process at the respective mills.

b. *Wet Process*

The most effective wet milling process is used at the Seimi mine, Shimane Prefecture. The mine staff originated a process which obviates dustiness and is well adapted to the poorly consolidated ore mined. The ore is broken at the pit by hand methods, aided by occasional use of explosives. It is hand-trammed about 100 meters to the mill where it is dumped directly into one of three cement cylinders, about three meters in diameter and about two meters high, containing stirring arms driven by an overhead power line. About 800 kilograms of ore are placed in each separator and mixed for 20 minutes under a continuous stream of water. This action breaks the ore, and the loosened fibres are floated off in the overflow from the separators. The overflow is run across sand-separating tables, (sloping tables crossed by baffle boards to trap the sand in suspension). The baffle boards are removable to facilitate cleaning the tables. The water is passed from the tables thru a shaking-screen which retains the fibre as the water passes thru. The fibres are continually scraped from the screen and dried, first in a centrifugal drier, then in trays which are placed in outdoor ovens or in the sun. Drainage from the shaking-screen is channeled off into various settling pits. Very short fibres which accumulate



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ASBESTOS PROCESSORS

ASBESTOS MINE IN PROVINCE OF QUEBEC

anticipating production late in 1949 or early in 1950 —seeks inquiries from users of asbestos fibres of all grades. Please address all inquiries to Robert Sherwood Associates—1637 Sherbrooke Street West, Suite 4, Montreal, Canada.

on the bottom of the pits are recovered by allowing the individual pits to dry occasionally.

Essential features of all wet processes include the breaking of the ore by jaw crushers and stamp crusher so that the fibre can be floated off by water.

[1]See the first article concerning location of deposits and production, in December 1948 "ASBESTOS".

ASBESTOS BONDED PIPE [1] USED FOR SEWER

A sewer of Asbestos Bonded Pipe, trade name for which is Armco Paved Invert Pipe, was recently completed for the Upjohn Pharmaceutical Company near Kalamazoo, Mich. The sewer is 6,000 feet long and 72 inches in diameter. It is designed to carry off storm water and industrial wastes, and one of its interesting features is that a portion of it was built on mucky soil.

The Upjohn plant is an enormous one, the largest manufacturing unit having an area of approximately 27 acres under one roof. The entire project, all drained by the Asbestos Bonded Pipe will eventually cover 1,000 acres, as a residential and recreation area adjacent to the plant will be developed by the company.

A variety of problems came up in the construction of the sewer line. At the outlet end the ground consisted of muck to a depth of several feet below the flow line, with the water table up to about two feet below surface level. Wells or sumps had to be dug during construction to drain off the water before the pipe could be laid. The pipe came in 10 and 18 foot sections; an average of 200 feet were laid in a day at an average cost of $21.00 per foot. The Asbestos Bonded Pipe was selected by the engineers because of its relatively light weight, flexibility and high resistance to corrosion.

[1]Made by Armco Drainage & Metal Products, Inc., Middletown, Ohio. Send for their illustrated booklet "Asbestos Bonding" if interested.

. . . —

It is easier to get a smattering of many subjects than to master a few.

ASBESTOS-CEMENT ASSOCIATES
INCORPORATED
ORIELL BUILDING MILLINGTON, N. J.

ENGINEERING SERVICE
TO THE ASBESTOS - CEMENT INDUSTRY

SPECIALISTS IN HATSCHEK OPERATION
COMPLETE PLANTS DESIGNED AND EQUIPPED
CONSULTING SERVICE ON MANUFACTURING PROBLEMS

WET MACHINE FELTS

FOR

ASBESTOS CEMENT PRODUCTS

ASBESTOS MILL BOARD

•

DRYCOR FELT COMPANY

STAFFORDVILLE, CONN., U. S. A.

ASBESTOS PRODUCTION

VI. Italy

Most of our readers are acquainted with the history (fact and story) of asbestos production in Italy, but for the benefit of those who are not we give a brief resume.

The original discovery of asbestos, (about 2000 years ago) is attributed to the Romans, who obtained it from the Italian Alps (and also from the Urals). They used it in making shrouds for their dead (so that the ashes might be kept separate from the wood ashes of the funeral pyre) and also for lampwicks.

About 1800 the idea was revived in Northern Italy that asbestos might be turned to useful account but for many years asbestos was of interest only to mineralogists and geologists.

The first modern attempt to exploit asbestos deposits in Italy was made in the Aosta Valley of the Italian Alps by a London Syndicate about 1860.

In 1866 three Italians, succeeded in making some small specimens of asbestos cloth and paper and endeavored to interest the Italian Government in the articles but failed. Meanwhile they obtained concessional rights from various communal authorities in the Valtellina, Val d'Aosta and Val Susa districts of Northern Italy, to explore for and excavate the raw material. They obtained a considerable quantity, most of which consisted of fibre of fine quality and great tensile strength. Furse Brothers, bankers of Rome, and others, became interested in these excavations and a company was subsequently formed in Glasgow, Scotland, in 1871.

Later, a company under the name of Italo-English Pure Asbestos Co., Ltd., was formed and a factory located at Turin. This firm succeeded in spinning, principally by hand, a yarn from Italian fibre, which was twisted into a rope packing. This firm also produced an exceptionally fine quality of millboard made at Tivoli, near Rome, for cylinder cover and other joints.

But the discovery of Canadian asbestos about 1880, practically ended the use of Italian fibres, as the Canadian

material was so much easier to manipulate by machinery used in the textile factories in Lancashire, England.

There are at present several large and well-known factories which utilize the Italian type of asbestos, and it will be seen from the tabulation given below that the production of asbestos fibre in Italy rose to almost 13,000 tons in 1942. Most of the asbestos produced in Italy is tremolite, altho the product of the Balangero Mine, situated near Turin is of the chrysotile variety, according to U. S. Bureau of Mines Bulletin 403.

While asbestos must have been produced in Italy from 1860 on in fairly large quantities, we have been unable to obtain any recorded production prior to 1898, not for the war years of 1943 and 1944.

	Tons (2000 lbs)		Tons (2000 lbs)
1898	144	1923	1,695
1899	89	1924	2,381
1900	123	1925	2,320
1901	243	1926	3,196
1902	243	1927	3,968
1903	202	1928	5,291
1904	182	1929	3,138
1905	220	1930	938
1906	209	1931	696
1907	.....	1932	1,415
1908	359	1933	3,601
1909	190	1934	2,482
1910	175	1935	4,762
1911	184	1936	6,738
1912	186	1937	7,047
1913	193	1938	7,562
1914	188	1939	7,457
1915	179	1940	9,117
1916	90	1941	11,867
1917	93	1942	12,891
1918	66	1943	.....
1919	108	1944	.....
1920	182	1945	5,303
1921	463	1946	Not yet available
1922	551	1947	Not yet available

TESTING ASBESTOS FOR CALCIUM AND IRON CONTENT

Filter manufacturers are interested not only in the corrosion-free construction of their equipment but also in the purity of the filter media used with them.

One maker of Filtering equipment, the Hercules Filter Corporation of Paterson, N. J., is manufacturing acid treated asbestos filtering pads which they guarantee to contain less than 0.1% of calcium (as metal) and .05% (as metal).

To assure these results their control laboratory has adopted stringent analytical procedures, which they have given "ASBESTOS" permission to publish. These follow:

Volumetric Determination of Acid Soluble Calcium in Asbestos Filter Sheets

Reagents required: Conc. Ammonium Hydroxide
1:10 Sulphuric Acid
1:1 Sulphuric Acid
Citric Acid Sol. (70 grams per liter)
4% Ammonium Oxalate Sol.
5% Hydrochloric Acid Sol.
0.1 N Potassium Permanganate

1. Digest a 5 gram sample in 100 mls. of 5% Hydrochloric acid sol. at room temperature for one half hour.
2. Filter and wash thoroly.
3. Neutralize filtrate with conc. Ammonium Hydroxide until a slight ppt forms. Citric acid sol. is then added in sufficient quantity to just dissolve the ppt and clear the solution. Then add about 15 mls. of Citric Acid in excess.
4. Dilute solution to 200 mls. and heat to boiling point. Precipitate Calcium Oxalate by the addition of 6 mls. of 4% Ammonium Oxalate Sol. Allow solution to settle for 2-3 hours or overnight.
5. Filter and wash ppt into flask thru perforation made in filter paper with warm 1:10 Sulphuric Acid Sol. Then add 25 mls. of 1:1 Sulphuric Acid and dilute to 250 mls.
6. When ppt has dissolved titrate with 0.1 N Potassium Permanganate.

Calculation:

$$\frac{\text{No. mls 0.1 N Potassium Permanganate} \times .002}{5} \times 100 = \% \text{ Ca as metal}$$

(Continued on page 30)

ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of
Asbestos Fibres of All Varieties
of

RAW ASBESTOS

for
Every Use

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CHRYSOTILE
AMOSITE
AMPHIBOLE FIBRES

originating in
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RUSSIA
CHINA
INDIA
RHODESIA
SOUTH AFRICA

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Large Capacity Fiberizing and
Grading Plant

451 Communipaw Ave. Jersey City, N. J.

Testing Asbestos (Continued)

Volumetric Determination of Acid Soluble Iron in Asbestos Sheets

Reagents required: 5% Hydrochloric Acid Sol.
1:20 Sulphuric Acid
5% Sodium Thiocyanate Sol.
0.1 N Potassium Permanganate

1. Digest a 5 gram sample in 100 mls of 5% hydrochloric acid sol. at room temperature for one half hour.
2. Filter and wash thoroly.
3. Evaporate filtrate to 10 mls.
4. Add 75 mls. of 1:20 Sulphuric Acid and allow to cool to room temperature.
5. Pass thru Jones Reductor at the rate of one drop per second. Test with 5% Sodium Thiocyanate for Fe^{***}
6. Titrate with 0.01 N Potassium Permanganate

Calculation:

$$\frac{\text{No. mls.0.01 N Potassium Permanganate} \times .000558}{5} \times 100 = \%\ \text{Fe}$$

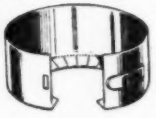
SOCIEDADE TECNICA DE HIDRÁULICA, SARL-"CIMIANTO"

Producer of Asbestos-Cement Goods

Address — R. Joaquim António de Aguiar, 41-1°
Lisbon — Portugal

Cable Address — "CIMIANTO" — Lisbon

Royal Pipe Covering Protectors



Insure - Permanent - Economical Protection To All Open Ends Of Pipe Covering

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SAN FRANCISCO, CALIF. .....LIPPINCOTT CO., INC.
461 Market Street

MARKET CONDITIONS

GENERAL BUSINESS

Until the inaugural ceremonies are over and the 81st Congress is in session, business will take a watchful waiting attitude.

"The country does not know yet what proposals will be made to the new Congress, still less what the Congress will adopt or reject, and even less what the overall effects of the Congressional action, plus other business influences will be," says the National City Bank letter for December, and this is still true at this writing (January 8th). It is hoped that within the next month or so the way will be charted more definitely and business may have some firmer basis upon which to plan future activities.

"The Construction Industry" says Harold R. Berlin, Vice President and General Manager of the Johns-Manville Building Products Division, "has at least four or five years of great activity ahead, but soft spots are showing up that could precipitate a temporary decline almost any time."

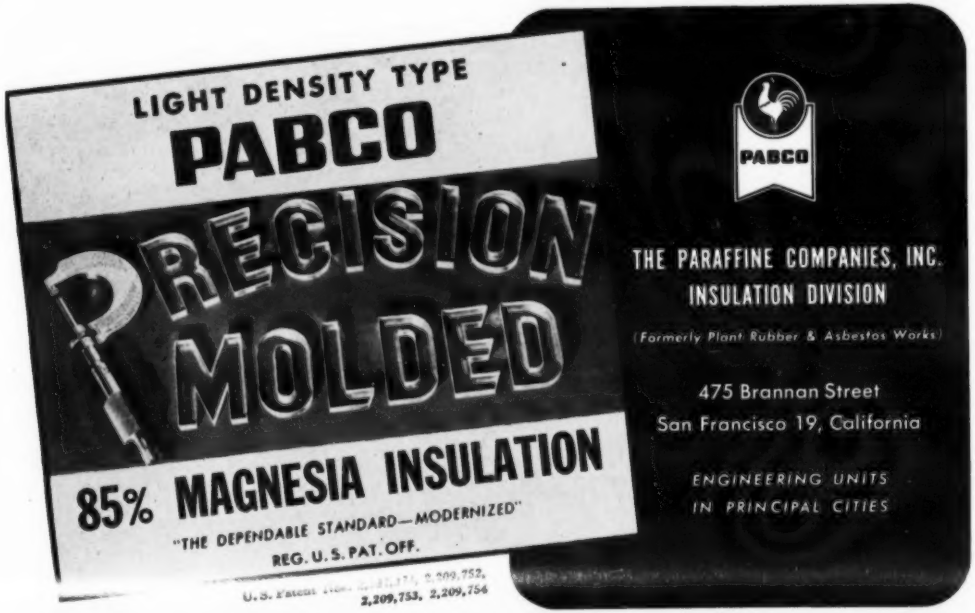
ASBESTOS - RAW MATERIAL

The demand for all grades of asbestos fibre is very heavy. Price increase as of January 1st was made necessary by the increased cost of labor, materials and supplies.

ASBESTOS - MANUFACTURED GOODS

Asbestos Textiles. Demand for cloth remains strong with an increase in that for roving and lap, but the backlog for yarns and tapes has fallen off somewhat. Price increases (which have been announced for January 1st) most likely will result in a slackening of orders. The December requirements have been heavy, probably due to attempts to build up inventories prior to price advances.

Altho it is rather difficult to foretell just what will happen in 1949 it is expected that all types of asbestos textiles will continue strong. There is no visible prospect of the fibre shortage being eased to any extent during 1949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and the production of textile materials will therefore continue inadequate for some time

Brake Lining. It is now certain that 1948 business closely approached the 1947 all-time high and indications are that 1949 will be a banner year but with increasing price competition. At this time nothing points to a falling off in business.

Asbestos Paper.. This market shows declining demand with the backlog of orders decreasing but prices remain firm. Fibre shortage is still a major factor.

As to *Saturated Asbestos Paper*, production of asbestos felt is at present greater than demand and while the prospects for 1949 business are good, it is probable that the bulk of the demand will be for reroofing rather than new work.

Asbestos Millboard. The Millboard market shows a reduced backlog but demand is expected to remain steady with prices firm.

Insulation. High Pressure. Demand for high pressure insulations remains strong with a large backlog and firm prices. Continued high demand is expected during 1949.

Insulation. Low Pressure. This market shows somewhat decreased orders and reduced backlog. The outlook for 1949 is reasonably good altho sales may fall below the 1948 figure.

Asbestos-Cement Products. There continues to be a substantial demand for asbestos-cement roofing and siding shingles in most territories altho there is evidence of a seasonal falling off in the Northeast. Prospects for 1949, however, are very good in both new building and remodeling fields and undoubtedly there will continue to be a shortage of asbestos-cement products thruout the building season.

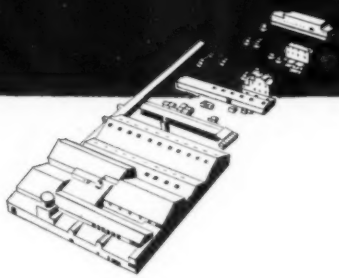
Corrugated and flat materials remain active but with no large backlog.

The market in Asbestos Pipes is oversold at present and if sufficient asbestos fibre is available capacity production can be used during the coming year.

The above comments have been compiled from opinions from executives in close contact with the several markets.

ASBESTONE
CORPORATION

Manufacturers
Asbestos-Cement
Building Products



FACTORY AND SALES OFFICE
5372 TCHOUPITOULAS ST., NEW ORLEANS, LA.

Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	Sept. 194 Tons (2240 lbs.)
From Bolivia	15
Canada	49,659
Italy	1
Mozambique	238
S. Rhodesia	941
U. of South Africa	980
U. S. S. R.	1,130
	52,964
Value	*$3,404,743*

By Grades

Crude No. 1 (Chrysotile)	
S. Rhodesia	192
Crude No. 2 (Chrysotile)	
Canada	22
S. Rhodesia	191
Crude—Other (Chrysotile)	
Canada	15
S. Rhodesia	558
Crude—Blue	
Bolivia	15
U. of S. Africa	150
Crude—Amosite	
Mozambique	238
U. of S. Africa	830
Textile Fibres—Chrysotile	
Canada	1,509
Italy	1
U. S. S. R.	1,130
Shingle Fibres (Chrysotile)—Canada	7,084
Paper Fibres (Chrysotile)—Canada	5,682
Fibres, Short Grades (Chrysotile)—Canada	35,347
	52,964

Note: In November "ASBESTOS", page 36, we questioned an item of 94 tons of Blue Asbestos from S. Rhodesia. The Bureau of Census advises that this was *Chrysotile* from S. Rhodesia.

ASBESTOS FIBRE SHINGLE GRADES

Immediate delivery.

A NEW MODERN ASBESTOS PLANT WITH REVOLUTIONARY EQUIPMENT

Your inquiries are invited.

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ASBESTOS FIBRES, INC.

Preparation Plant:

33 AVENUE P, NEWARK, N. J.

Main Office:

56 CRITTENDEN ST., NEWARK, N. J.

Imports into U. S. A.—Continued
Manufactured Asbestos Goods:

	Sept. 1948 Quantity (Lbs.)	Value
Asbestos Yarn		
Canada	3	$ 2
United Kingdom	15,944	12 93
Asbestos Packing Fabric		
United Kingdom	1,232	1 082
Asbestos Packing—Not Fabric		
Canada	10	16
United Kingdom	2,011	1.299
Asbestos Woven Fabrics (Other)		
Canada	2,398	1.373
Asbestos Brake Lining—Molded		
Canada	9	2
Asbestos Cement Products—Not Impreg.		
Canada	156,454	10.452
Asbestos Manufactures—Other	....	10
	178,061	$26.929

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos

	Sept. 1948 Tons (2240 lbs.)	Value
To Canada	1	$ 775
Argentina	75	15.538
Colombia	89	40.400
Venezuela	55	15,981
Philippine Is.	8	2.700
Germany	59	4.190
Netherlands	101	14.000
Mozambique	27	3.750
Other Countries	36	400
	451	$97.734

Manufactured Asbestos Goods

		Sept. 1948 Quantity	Value
Asbestos Paper, Mlbd., Rlbd.	Lbs.	51,680	$ 8,305
Asbestos Pipe Covg. & Cement	Lbs.	341,165	34.880
Asbestos Textiles and Yarn	Lbs.	12,830	12.172
Asbestos Packing	Lbs.	169,432	105.580
Asbestos Brake Lng. (Mld.&S.Mld.)	Lbs.	152,443	142.292
Asbestos Brake Lng. (Woven)	L. Ft.	28,618	21.319
Asbestos Clutch Fcgs. (Mld.&S.Mld.)	No.	47,176	20.865
Asbestos Clutch Fcgs. (Woven)	No.	32,783	14.255

(Continued on page 40)

EUROPEAN ASBESTOS

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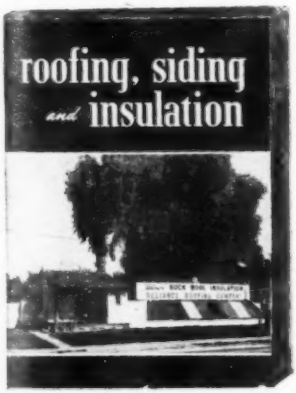

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of selling the nation's roofing, siding and insulation contractors!

CANTOR
PUBLISHING CO.
New York 19, N. Y.

Exports Manufactured Asbestos Goods (Continued)

		Sept. 1948 Quantity	Value
Asbestos Brake Blocks (M.&S.Mld)	Lbs.	21,428	12 172
Asbestos Brake Blocks (Woven)	Lbs.	1,947	1 775
Asbestos Sheets	Lbs.	508,658	31 402
Asbestos Roofing	Sqs.	11,328	114 623
Other Asbestos Manufactures	Lbs.	....	164 425
			$684.065

Canada

(Department of Mines, Province of Quebec)

Production for October 1948 ..... 65,780 tons (2000 lbs.)
Compared with October 1947 ..... 59,462 tons (2000 lbs.)

Preliminary estimate of Canada's Asbestos production for the year 1948 is given by the Department of Trade and Commerce, Dominion Bureau of Statistics, Ottawa, in Bulletin A1-30-12-48 as 707,843 tons, worth $41,300,000, a gain of 7% in quantity and 25% in value over 1947.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Production for August 1948 ..... 4,455.63 tons (2000 lbs.)
Valued at £217,513

Africa (Swaziland)

Production for September 1948 ..... 2,600 tons (2000 lbs.)
October 1948 ..... 2,600 tons (2000 lbs.)

AUTOMOBILE SALES

	November 1948
Passenger Cars	364,870
Motor Trucks	103,837
Motor Coaches	545
	469,252

October sales were 491,832, while sales for November 1947 were 394,175.

Total sales for the 11 months of 1948 (January to November inclusive) were 4,798,863; for the same period in 1947—4,327,693. These figures cover only cars made in the United States.

The above data is supplied by the Automobile Manufacturers Association, New Center Building, Detroit 2, Mich.

SMITH & KANZLER CORPORATION

MANUFACTURERS OF

ASBESTOS PAPER

AND

LOW PRESSURE INSULATIONS

ESTABLISHED 1920

LINDEN, NEW JERSEY

NEWS OF THE INDUSTRY

BIRTHDAYS

A. J. Heinsohn, General Manager, General Asbestos & Rubber Division, Raybestos-Manhattan, Inc., N. Charleston, S. C., January 17th.

A. F. Matheis, Asst. Vice President, Thermoid Co., Trenton, N. J., January 17th.

Stanley Woodward, Vice President in Charge of Southern Division, The Ruberoid Co., Baltimore, Md., January 17th.

R. W. Lea, President, Johns-Manville Corporation, New York City, January 18th.

Sydney L. Miller, Secretary, Asbestos Products Mfg. Corp., Newark, N. J., January 18th.

Harry M. Shackelford, Vice President in charge of Sales Promotion, Johns-Manville Corporation, New York City, January 18th.

E. C. Nankervis, President, Magnesia-Asbestos Insulation Co., New York City, January 19th.

R. W. Bair, District Manager, Armstrong Cork Co., Philadelphia, Pa., January 23rd.

L. Diener, President, Smith & Kanzler Corporation, Linden, N. J., January 23rd.

F. H. Neher, Vice President, The Flintkote Co., New York City, January 27th.

A. Arthur Halle, Jr., Secretary, Union Asbestos & Rubber Co., Chicago, Ill., January 30th.

James H. Watters, President, Union Asbestos & Rubber Co., Chicago, Ill., January 30th.

Lt. Col. J. G. Ross, Director, Asbestos Corporation Limited, Thetford Mines, P. Q., Canada, February 1st.

Alden A. Lofquist, President, Norristown Magnesia & Asbestos Co., Norristown, Pa., February 3rd.

Arthur I. Rank, Universal Insulation Co., Philadelphia, Pa., February 5th.

Edward F. Rines, Secretary & Assistant Treasurer, Acme Asbestos Covering & Flooring Co., Chicago, Ill., February 5th.

Richard Matthews, Manager, Insulation Department, Warren & Bailey Co., 350 Anderson St., Los Angeles, Calif., February 6th.

George V. Parker, Chairman, Cellactite & British Uralite Ltd., Higham, Rochester, Kent, England, February 8th.

Wm. A. Bartelt, President, Bartelt Asbestos & Cork Inc., Appleton, Wis., February 10th.

Raymond P. Townsend, Vice President, Johns-Manville Corporation, New York City, February 10th.

BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

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United States Sales Agent:

ARNOLD W. KOEHLER

415 LEXINGTON AVE. **NEW YORK CITY**

TELEPHONE—VANDERBILT 6-1477

H. A. Hirschfeld, President, Standard Asbestos Co., Inc., New York City, February 11th.

Lewis H. Brown, Chairman of the Board, Johns-Manville Corporation, New York City, February 13th.

Herbert L. Levine, President, Asbestos Products Mfg. Co., Newark, N. J., February 13th.

Robert W. Steele, Chairman, Asbestos Corporation Limited, Thetford Mines, P. Q., Canada, February 15th.

To all these gentlemen we extend best wishes and congratulations on the occasion of their birthdays.

SEATTLE WAREHOUSE FOR RAYBESTOS-MANHATTAN

Raybestos-Manhattan, Inc., announces its new Seattle Warehouse and Office at 314 Occidental Avenue, for the convenience of its customers in the Pacific Northwest. The principal products carried will be conveyor belting, transmission belting, V-belts, industrial hose of all types, and asbestos and rubber packings.

The warehouse and office will be in charge of Russell G. Heuman, well known in the Northwest. Thru its warehouses in Seattle, San Francisco and Los Angeles, Raybestos-Manhattan is now equipped to handle the requirements of its customers in the entire Pacific Coast area.

ARTICLE—India Rubber Journal

"Wonderful Asbestos" by E. Douglas Caird, appeared in the December 4, 1948 (Export Number) issue of the India Rubber Journal, published at Stafford House, Norfolk St., Strand, W.C. 2, London, England.

It covers the subject of asbestos comprehensively tho briefly.

INTERNATIONAL ASBESTOS—Pilot Plant

International Asbestos is ready for the construction of a pilot plant, to be completed in late 1949, according to J. O. C. Belisle, President. While the pilot plant is under construction, further exploration will be carried out to determine the eventual size of the mill. We understand the deposit will permit open mine operation.

JOHNS-MANVILLE—New Brochures

"Sound Control" a 16 page brochure, giving a great deal of informative data on the subject was issued on December 9, 1948 by Johns-Manville.

On the same date they brought out their 24 page booklet on "Transite Movable Asbestos Walls", covering latest information, data and specification suggestions.

Copies of either or both pamphlets can be obtained by writing John-Manville, 22 E. 40 St., New York 16, N. Y.

SALES CONFERENCE—J-M Building Products Division

On December 14th, about 400 Johns-Manville building materials dealers, jobbers and salesmen from New York, New Jersey and Connecticut met at the Roosevelt Hotel, New York City for a sales conference, at which R. W. Lea, President, and top New York executives of the company's Building Products Division discussed the outlook for building and the steps taken by Johns-Manville to meet the unprecedented demand for products and services.

J. W. CLISE ANNOUNCES PERSONNEL CHANGES

J. W. Clise, President of J. W. Clise & Co., Seattle, Wash., announces the resignation effective November 15, 1948, of *Phillips Dickinson* from the several Asbestos Supply Companies, represented by J. W. Clise & Company.

Al J. Stream, for many years Pacific Coast Manager of Plant Rubber & Asbestos Works, has been made assistant to Mr. Clise and Assistant to the Presidents of the several Asbestos Supply Companies. Mr. Stream is now Treasurer of those companies.

J. I. Colwell has been elected a Director of each of the four Asbestos Supply Companies. He was for many years Pacific Northwest Manager of the Graybar Company.

ABBOTT L. JOHNSON HEADS ASBESTOS MFG. COMPANY

Abbott L. Johnson, President ond General Manager of Warner Machine Products Co., has been elected President and General Manager of the Asbestos Mfg. Company with plants in Huntington and Wabash, Ind.

TURNER BROTHERS ASBESTOS CO.
Erecting Huge Factory At Hindley Green

The large factory being erected by Turner Brothers Asbestos Co. at Hindley Green, near Wigan (England) will be devoted to the entire belting production of the company, leaving the plant at Rochdale free for the development of asbestos products.

The site contains one hundred acres, and the factory (built on one floor) has a floor area of half-a-million square feet.

The chief products of this new factory will be rubber conveyor belting, rubber transmission belting, balata transmission belting and endless "V" belts. Production should commence during the first half of 1949 and increase steadily until the plant has been completed. Information above from the India Rubber Journal.

JOSEPH CUVELIER HONORED

Joseph Cuvelier, President and Founder of the Societe Eternit, Prouvy-Thiant (Nord) France, has been awarded the order of the Legion of Honor.

ASBESTOS CORPORATION LIMITED
Announces New Appointments

At a meeting of the Board of Directors of Asbestos Corporation Limited held on the 16th of December, 1948, the following new appointments were announced: Chairman of the Board of Directors, R. W. Steele; President & Managing Director, A. L. Penhale; General Manager, G. F. Jenkins; Secretary & General Sales Manager, J. A. Marcotte; Acting Treasurer, P. Payeur.

PATENTS

This information obtained from the Official Patent Gazette published weekly by the U. S. Patent Office, Washington, D. C

Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Injection of Brake Linings No. 2,452,284. Granted on October 26, 1948 to Charles H. Bease, Dayton, Ohio. Assignor to General Motors Corporation, Detroit, Mich. Application January 11, 1946. Serial No. 640,622.

The steps in the method of lining the face of the curved metal flange of a brake shoe with a heat-resisting fibrous friction lining bonded to said metal flange comprising: Locating the brake shoe within the mold cavity of a divided mold so that said flange is very rigidly backed up and supported by the mold and forms a non-yielding confining wall for that portion of the mold cavity wherein the lining is to be molded, closing the mold and maintaining the mold closed with a high force sufficient to withstand the internal pressure within the lining cavity, injecting a thermosetting fibrous plastic compound containing a volatile solvent into the lining cavity under a very high pressure of the order of 15,000 pounds per square inch to completely fill and then highly compact said plastic compound within the lining cavity and to cause the thus molded friction lining to adhere to said curved metal flange when the mold is opened, then opening the divided mold and removing therefrom the thus formed unit of brake shoe and molded lining, then clamping the molded lining tightly against said curved flange with a follow-up substantially uniformly distributed radial pressure, then heating said molded lining at a moderate temperature below the curing temperature thereof to evaporate said volatile solvent therefrom and substantially curing said lining at a curing temperature therefor.

Interlocking Strip Shingles. No. 2,452,708. Granted on November 2, 1948, to Herbert Abraham, New York City, Assignor to The Ruberoid Co. Application March 6, 1947. Serial No. 732,798. Description upon request.

Friction Elements, and Bonding. No. 2,453,188. Granted on

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November 9, 1948, to William A. Blume, Farmington, and Ray E. Spokes, Ann Arbor, Mich., assignors to American Brake Shoe Co., New York City. Application June 28, 1943. Serial No. 492,562. A bonding agent for friction elements. Further Description upon request.

Manufacture of Duct Turns or Vanes. No. 2,454,074. Granted on November 16, 1948 to Henri M. Marc, Roselawn, Ohio. Assignor to The Philip Carey Mfg. Co., Cincinnati, Ohio. Application February 8, 1946. Serial No. 646,279-½. Description upon request.

Working up Magnesia Rock and Purification of Magnesium Carbonate. No. 2,455,813. Granted on December 7, 1948 to Robert A. Schoenlaub, Tiffin, Ohio. Assignor to Basic Refractories, Inc., Cleveland, Ohio. Application October 7, 1943. Serial No. 505,363. Description upon request.

Plastic Joint Composition. No. 2,456,269. Granted on December 14, 1948, to Joseph W. Gill, Elmhurst, Ill., assignor to U. S. Gypsum Co., Chicago, Ill. Application December 1, 1944. Serial No. 566,230.

A surfacing crevice filling composition of matter comprising the following ingredients.

Animal Glue	3.0
Corn Paste	1.4
Basic Chrome Sulfate	0.6
Asbestos floats	4.0
Finely ground Pyrophyllite	20.0
Finely ground Silica	15.0
Stucco-paste (low consistency)	56.0

FOR SALE

Corrugating machine and other equipment for manufacture of pipe coverings, or will sell as going business with low rental of building in Newark, N. J. H. H. Otto, 164 Fourth St., Newark - HUmboldt-2-1394.

SALES EXECUTIVE AVAILABLE

Graduate engineer M. S. degree. Married. Presently employed by national man facturer and applicator of industrial insulations. Experience during past 10 years included industrial sales; merchandise distribution; training salesmen; estimating and selling contract insulation work. Complete knowledge of contracting operations. Additional data and references upon request. Write Box No. 1K-R, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

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ASBESTOS STOCK QUOTATIONS

These figures are compiled from the Commercial and Financial Chronicle. No guarantee as to their correctness).

	Par	December 1948 Low	High	Last
Armstrong Cork (Com.)	np	46¼	49	48
Armstrong Cork (Pfd.)	np	94¼	97	97
Armstrong Cork (Conv. Pfd.)	np	108	111½	111½
Asbestos Corp. (Com.)	np	25½	27	26¼
Asbestos Mfg. Co. (Com.)	1	1⅛	1⅝	1⅜
Celotex (Com.)	np	24⅝	26⅝	26¼
Celotex (Pfd.)	20	17⅝	19	18¼
Certainteed (Com.)	1	12½	14¼	13
Flintkote (Com.)	np	28⅛	30⅞	30⅜
Flintkote (Pfd.)	np	95	102	102
Johns-Manville (Com.)	np	37¼	39¾	39½
Johns-Manville (Pfd.)	100	103½	110⅛	109
Paraffine (Com.)	np	18⅝	21	19
Paraffine (Pfd.)	100	101½	106	105
Raybestos-Manhattan (Com.)	np	25¾	28	26
Ruberoid (Com.)	np	54	56½	56
Thermoid (Com.)	1	5¼	6⅛	5½
Thermoid (Pfd.)	50	34½	36	35¼
Union Asb. & Rub. (Com.)	5	11⅛	13½	11⅜
United Asbestos	1	1.07	1.65	1.23
U. S. Gypsum (Com.)	20	99	103½	101¾
U. S. Gypsum (Pfd.)	100	169¼	177	173
U. S. Rubber (Com.)	10	37⅛	40½	39⅝
U. S. Rubber (Pfd.)	100	121	126¾	125

COSMETIC SHOP USES CORRUGATED

A "cosmetic shop" of unique character has recently been established in the shopping center of Philadelphia[1] by the Sun Ray Drug Company.

This shop sells nothing but cosmetics; is really tiny in its proportions, but with its brilliant lighting and well displayed merchandise reminds one of a jewel box.

Of particular interest to the editor, and will also appeal to many of our readers, are the side walls which are of Corrugated Asbestos-Cement Sheets tinted rose color. Mirrors add to the general jewel box effect.

AFTERTHOUGHTS

¶ It was surely a pleasure to receive a "Greeting" from a veteran in the Asbestos and Insulation Industry—Harry A. Dutton. We have tried to convince Mr. Dutton that our readers would be interested in his biography but in vain. Mr. Dutton is apparently too modest.

¶ Not much news this month—don't forget to tell us of changes in personnel, of new booklets or catalogs issued,—anything which is "news" and see that we receive it "when it *is* news".

¶ A red sticker on the envelope in which "ASBESTOS" reaches you means your subscription has expired. Renew promptly, and don't forget that check should accompany renewal. Saves both you and us time.

¶ A. S. T. M.—The American Society for Testing Materials will hold its Spring Meeting and Committee Week at Hotel Edgewater Beach, Chicago, February 28th to March 4th, inclusive.

The Philadelphia District will hold a meeting on February 10th at McCallister's, 1811 Spring Garden St., Philadelphia. The subject of this meeting will be "Industrial and Materials Quality Control" and a film on Quality Control will be shown by Simon Collier, Director of Quality, Johns-Manville Corporation.

¶ One of many inquiries to reach us this month was a request for a list of applications (uses) of Composition Packing. Outside of catalogs published by the various packing Manufacturers has anything been published giving a list of such applications? If so we would greatly appreciate a copy.

¶ And that reminds us to again remind you to send copies of new catalogs, brochures, or booklets, so that we may mention them in "ASBESTOS" and keep on file.

A HAPPY AND PROSPEROUS NEW YEAR TO ALL IN THE ASBESTOS INDUSTRY

BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy, discount in quantities of 50 or more.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy, discount in quantities of 50 or more.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy, discount in quantities of 50 or more.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. 30c.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks) 35c per copy postpaid.

Asbestos: A Magic Mineral, by Lilian Holmes Strack. Written for school children but should be in every Asbestos library. $1.00 per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished product, in plain language, illustrated, 25c a copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia 30, Pa. Postage stamps acceptable for amounts less than $1.00.

MEN WANTED—POSITIONS OPEN

We can place superintendent for asbestos-cement wet machine plant, also tour bosses and roofing superintendents, foremen, and other executives for paper, pulp, and textile mills. We invite correspondence (confidential) with employers seeking men and men seeking positions. Charles P. Raymond Service, Inc., 294 Washington St., Boston, Mass. Over 50 years Confidential Employment Service for Mills.

CURRENT RANGE OF PRICE

Canada—

	Per Ton (2000 lbs.) f.o.b. Mine		
Group No. 1 (Crude No. 1)	$960.00	to	$1,050.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	400.00	to	550.00
Group No. 3 (Spinning Fibre)	232.00	to	425.00
Group No. 4 (Shingle Fibre)	95.50	to	141.00
Group No. 5 (Paper Fibre)	78.50	to	88.00
Group No. 6 (Waste, Stucco or Plaster)			58.00
Group No. 7 (Refuse or Shorts)	28.00	to	52.00

Vermont—

	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.		
Group No. 4 (Shingle Fibre)	$111.50	to	$124.00
Group No. 5 (Paper Fibre)	79.00	to	96.50
Group No. 6 (Waste, Stucco or Plaster)			59.00
Group No. 7 (Refuse or Shorts)	28.50	to	52.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

BUILDING

A brake was applied to the year's upward spiral of investment commitments for building and engineering projects in nearly all areas east of the Rocky Mountains in November, according to F. W. Dodge Corporation.

As November came to a close, contract dollar volume of building and construction for this year thru November was at a level 22% higher than that reported for the first eleven months of last year. The November declines were manifested in all major classifications of building and construction, with reverses in heavy engineering awards the most pronounced.

November contracts totaled $611,216,000 in the thirty-seven eastern states of which non-residential awards were $240,310,000, residential $264,033,000 and heavy engineering awards $106,873,000.

Contracts awarded during the year 1948 aggregated $9,429,618,000 topping the 1947 volume by 22% and exceeding by 14% the previous record of $8,255,061,000 set in 1942 when the war construction program was at its peak.

• • • —

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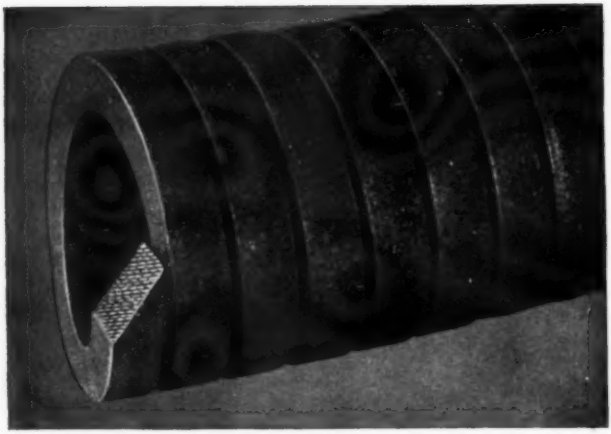

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Standardization by EHRET packing experts has produced a line of packings that has been held to a minimum number of items consistent with service, economy and good practice. Dealers and Distributors can materially reduce inventories and, at the same time, maintain stocks to cover a broad range of service requirements.

Details of the Ehret line of Valley Forge Packings are contained in a packing service manual. A copy will be sent to you on request.

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